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BIRMAN, H S	
CARNIVAL, G J	
COPP, R D	
CORDOVA, R C	
DAVIS, J G	
FERRERA, D W	
HANNI, B J	
HEALY, T J	
HILBIG, J G	
IDEKER, E H	
KERSH, J M	<input checked="" type="checkbox"/>
KIRBY, W A	<input checked="" type="checkbox"/>
KUESTER, A W	
LEE, E M	
MANN, H P	
MARX, G E	
MCKENNA, F G	
MONTROSE, J K	
MORGAN, R V	
MUTO, V M	
PCATER, G L	
RILEY, J H	
SANDLIN, N B	
STATTERWHITE, D G	
SCHUBERT, A L	
SHIMPLER, R L	
SULLIVAN, M T	
SWANSON, E R	
WHITE, B L	
WILKINSON, R B	
WILSON, J M	
ZANE, J O	

OCT 20 1992

ERD PMP 11362

Section D Categorical Exclusion (RFO/CX025 91) Determination

C M Borgstrom Director Office of NEPA Oversight, EH 25 HQ

A copy of RFO/CX025 91 Field Activities for Geological and Ecological Characterization Within Floodplains or Wetlands is attached for your review. This categorical exclusion (CX) was originally submitted for approval to the Office of Environmental Restoration and Waste Management in October of 1991. We have been awaiting the approval and publication of the Floodplain/Wetlands Notice of Involvement and Statement of Findings required by regulations at 10 CFR 1022 since that time. Both of those documents have now been published in the *Federal Register* and the Wetlands Assessment has been delegated from EM to the field in this interim time we are now resubmitting the CX which has been approved by the Rocky Flats Office Manager.

*Robert M Nelson Jr*  
Robert M Nelson Jr  
Manager

Attachment

cc w/Attachment:  
R S Scott EM 20  
A Rampertaap EM 453  
S Nesta EG&G  
W A Moore EG&G

OPR S CONTROL ☒ ☒  
TRAFFIC ☐ ☐

Reviewed for Addressee  
Cor es Control RFP

10-21-92 *Cin*  
DATE BY

Ref Ltr #

ADMIN RECORD

1/17

**SECTION D DETERMINATION**  
**CATEGORICAL EXCLUSION (CX) DETERMINATION RFO/CX025 91**

**Proposed Action**                      Field Activities for Geologic and Ecological Characterization Within Floodplains or Wetlands

**Location**                              Rocky Flats Plant Golden CO

**Proposed by**                          U S Department of Energy Rocky Flats Office

**Description of the Proposed Action**

Rocky Flats Plant proposes to carry out field activities to gather data to characterize the geology and ecology of the plant site within wetlands and floodplains in support of the remediation of RCRA and CERCLA sites. This work may be performed both within and outside the boundaries of operable units 1, 2, 5 and 6. The characterization work would include 1) establishing new surface water and sediment sampling stations and collecting samples, 2) collecting soil and soil gas samples, and 3) drilling new water wells and collecting groundwater samples, and 4) drilling to obtain geologic cores.

To establish new surface water and sediment sampling stations, stakes would be driven into the ground at the edge of a stream or water body. The stakes would be used as reference points so that samples can be taken from the same locations periodically. Water and sediment samples would be taken by driving or walking to the sample site and collecting up to a few pounds of sediment or a few quarts of water.

Soil and soil gas samples may be collected within floodplains from grids 38, 51, 52, 57, 81, 96, 109 and 115 shown on Figure 2 using three different methods. The first soil sampling method uses a Colorado Department of Health sampler to remove two to three tablespoons of soil from the ground surface anywhere within the grid. The second soil sampling method that would be used is backhoe excavation of soil pits nine feet long, five feet wide and four feet deep to gather samples from the soil profile within each grid. The sample pits will be refilled with the excavated earth after sampling. Sampling soil gas (Figures 3 and 8) is to be accomplished by using a hand auger to drill a one inch diameter hole 18 to 24 inches deep. A probe is inserted into the hole to sample any gases that escape from the soil.

Drilling new water wells and core holes would involve driving a truck mounted drilling rig to the locations shown on Figures 1, 3, 6, 7, 8, 9, 10, 11, 13 and 14 to drill holes four to six inches in diameter. Drilling activities that may be within the 100 year floodplain or wetlands are highlighted by heavy arrows on the figures. As a general principle, drilling in wetlands would be avoided because of the added difficulties of setting up a drill rig and drilling in saturated soils, but it may be necessary to locate one or more holes within a wetland. As holes are drilled, drill cuttings would be brought to the surface and shoveled into drums for analysis of contaminants and appropriate disposal. Drilling activity will result in the trampling of vegetation for up to 200 square feet around the drill hole.

These activities would not introduce or cause the inadvertent or uncontrolled movement of hazardous substances or non native organisms, or adversely affect environmentally sensitive areas listed in the guidelines. Because of the nature of the proposed activities, no adverse impacts are expected to wetlands or floodplains.

**Categorical Exclusion to be applied**

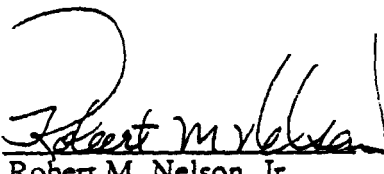
B3.1 Site characterization and environmental monitoring including siting, construction, operation, and dismantlement or closing (abandonment) of characterization and monitoring devices and siting.

construction and operation of a small scale laboratory building or renovation of a room in an existing building for sample analysis. Activities covered include but are not limited to site characterization and environmental monitoring under CERCLA and RCRA. Specific activities include but are not limited to (a) Geological geophysical (such as gravity magnetic electrical seismic and radar) geochemical and engineering surveys and mapping including the establishment of survey marks (b) Installation and operation of field instruments such as streamgauging stations or flow measuring devices telemetry systems geochemical monitoring tools and geophysical exploration tools (c) Drilling of wells for sampling or monitoring of groundwater or the vadose (unsaturated) zone well logging and installation of water level recording devices in wells (d) Aquifer response testing (e) Installation and operation of ambient air monitoring equipment (f) Sampling and characterization of water soil rock or contaminants (g) Sampling and characterization of water effluents air emissions or solid waste streams (h) Installation and operation of meteorological towers and associated activities including assessment of potential wind energy resources (i) Sampling of flora or fauna and (j) Archeological historic and cultural resource identification in compliance with 36 CFR part 800 and 43 CFR part 7 (10 CFR 1021 Appendix B to Subpart D)

**DOE NEPA REGULATIONS SECTION D**  
**CATEGORICAL EXCLUSION DETERMINATION RFO/CX025 91**  
Field Activities for Geologic and Ecological Characterization Within Floodplains or Wetlands

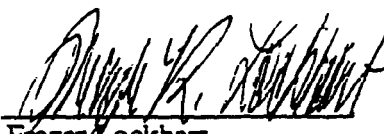
I have determined that the proposed action meets the requirements for a categorical exclusion as defined in the Section D of 10 CFR 1021. Therefore I approve the categorical exclusion of the proposed action from further NEPA review and documentation.

Date 10/20/92

Signature   
Robert M. Nelson Jr.  
Title Manager Rocky Flats Office

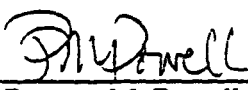
Project Sponsor

Date 10/14/92

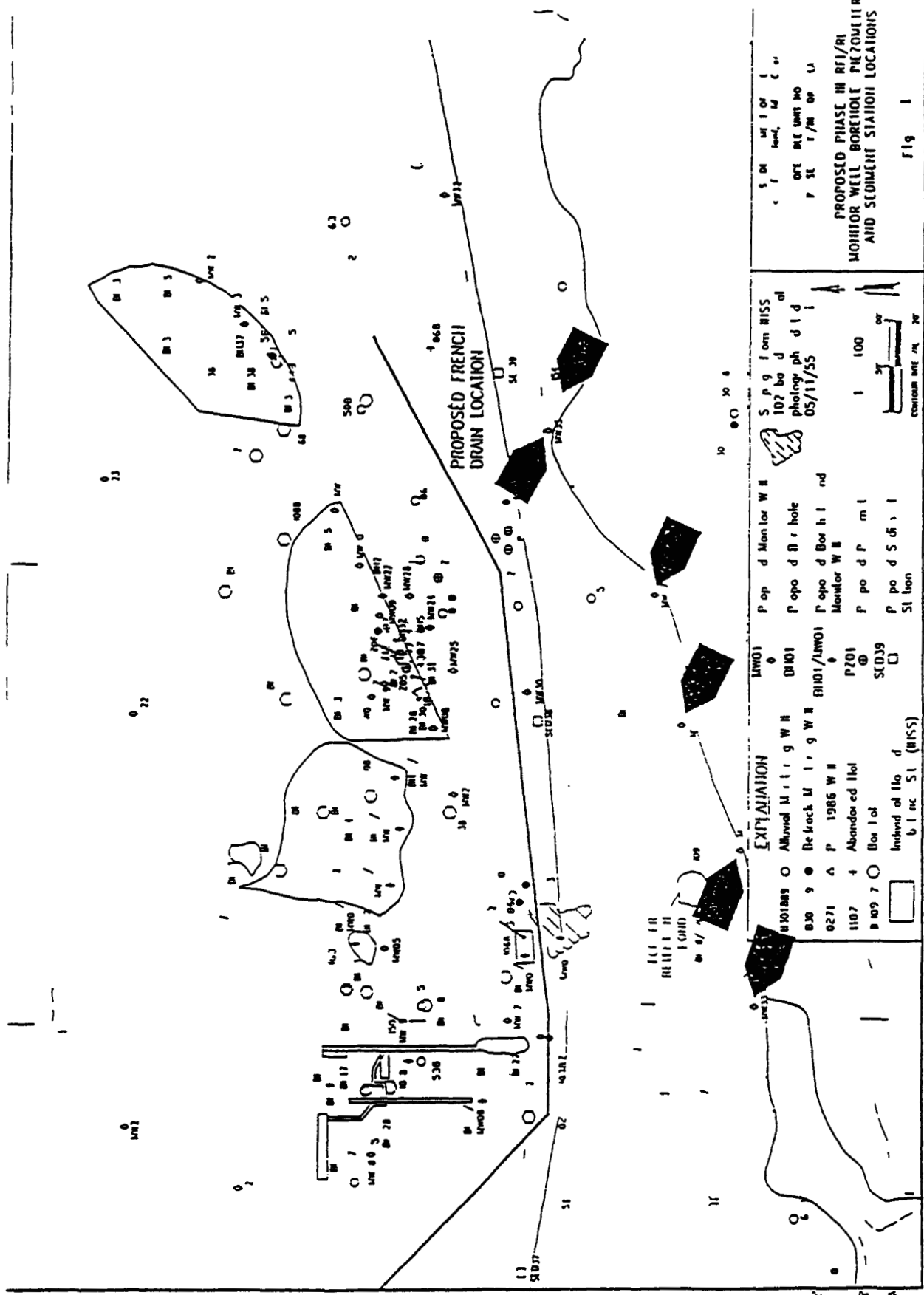
Signature   
Frazer Lockhart  
Title Director Environmental Restoration Division

I have reviewed this determination and find that a categorical exclusion is the appropriate level of NEPA documentation.

Date October 6, 1992

Signature   
Patricia M. Powell  
Title NEPA Compliance Officer

ADS number 1001 1002 1005 1016 (EM)



4/17

# EXPLANATION



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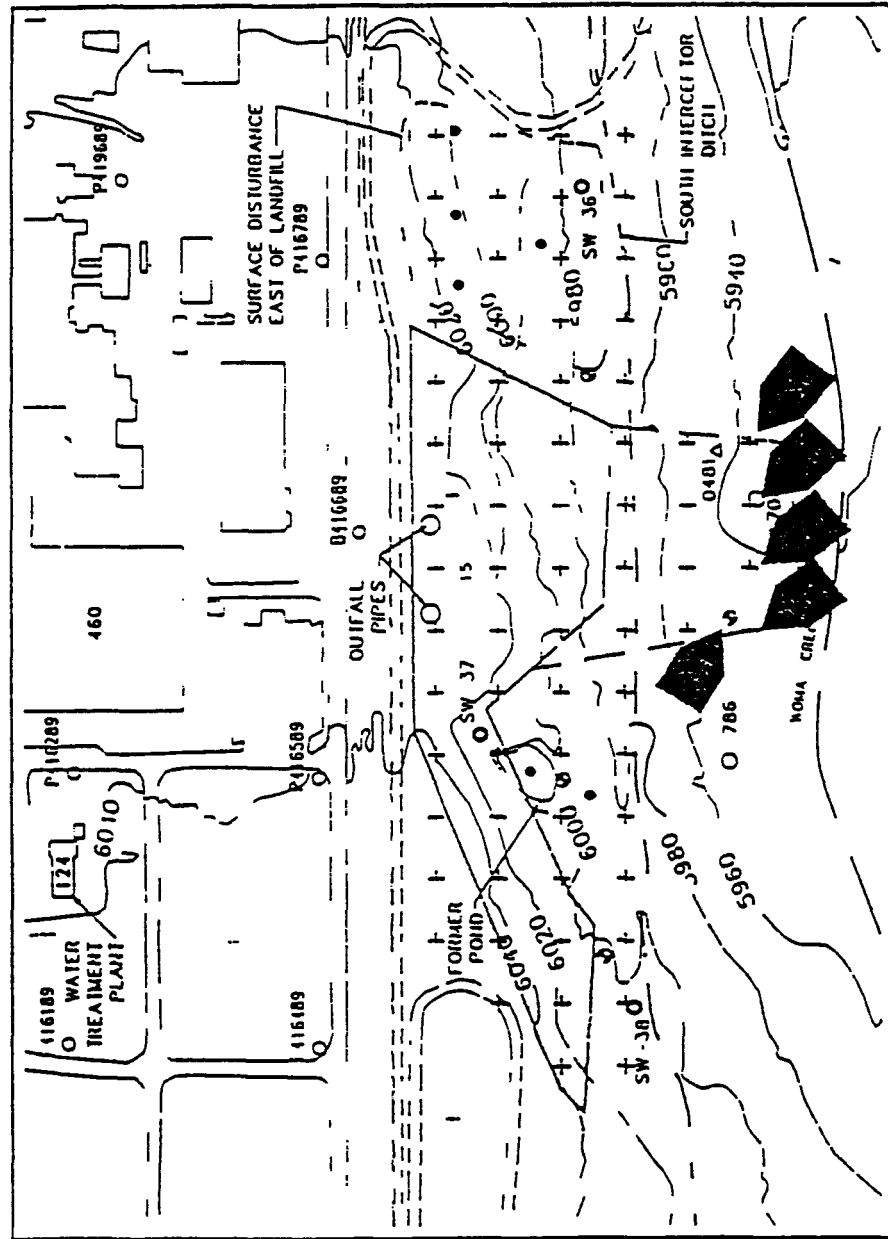
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SOURCE: OF MATERIALS OF AGRICULTURE AND

SOIL TYPE NUMBER

SURVEY

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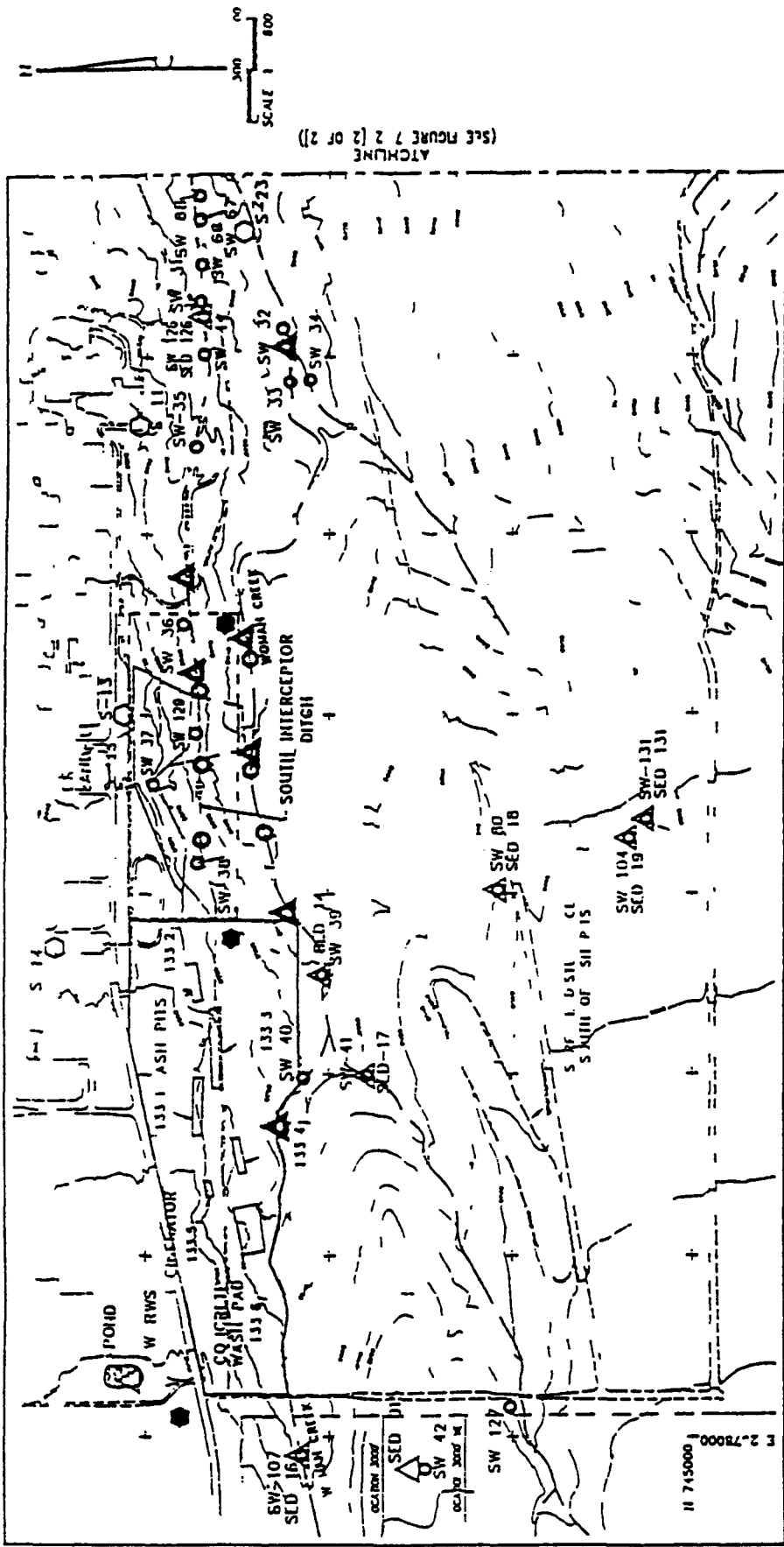


# EXPLANATION

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING ALLUVIAL OR OTHER MONITORING WELL
- PRE 1986 MONITORING WELL
- INTERMITTENT STREAM
- DIRT ROAD
- ROCKY FLATS INDC NO
- PRELIMINARY EXTENSION OF THE LANDFILL B SID ON A SITE RECONNAISSANCE
- PROPOSED WELL LOCATION
- PROPOSED SOL BORING LOCATION
- PROPOSED SOL C S SAMPLES
- ALL PROPOSED LOCATIONS ARE AFTER RM 11

U.S. DEPARTMENT OF ENERGY  
 R W T I P I C I d C I d  
 OPERABLE UNIT 5  
 PHASE I RI/MI WORK PLAN  
 PROPOSED SAMPLING AND WELL LOCATIONS  
 HISS 115  
 ORIGINAL LANDFILL

2117

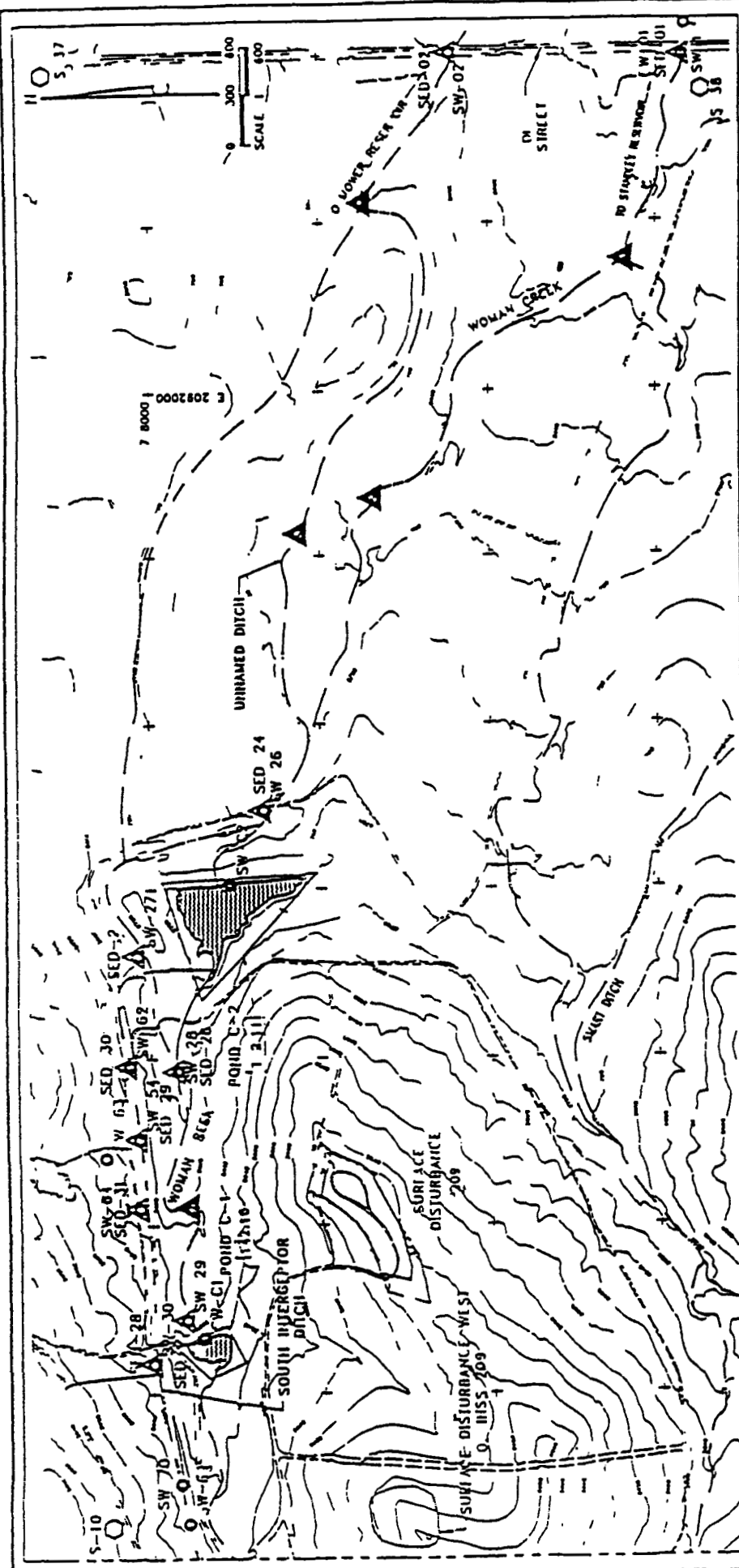


ATTACHMENT 2 (OF 22)  
(SEE FIGURE 7.2 (OF 22))

**EXPLANATION**

1.3	INDIVIDUAL HAZARDOUS SUBST CE SITE	▲	PROPOSED SEDIMENT SAMPLE LOCATION
W	EXISTING SURF CE W/IN OC NO	●	PROPOSED AND CVC AREA T AIR MONITORING PROGRAM LOCATION
SED	EXISTING SEDIMENT T SAMPLE G LOC NO	○	PROPOSED SURFACE AIR LOCATION
---	INTERMITTENT SINE W	---	PROPOSED CIRCUMFERENCE SURVEY FOR ASH PIT AREA
---	DITCH ROAD	---	1990 CEMETERY PROPERTY BOUNDARY
---	PROPERTY LINE	---	1990 CEMETERY PROPERTY BOUNDARY
---	PROPERTY LINE	---	1990 CEMETERY PROPERTY BOUNDARY

U.S. DEPARTMENT OF ENERGY  
R W 111 P1 1 G 1d C1 d  
OFFICIAL USE ONLY  
PHASE I REF/RI WORK PLAN  
SEDIMENT & SURFACE WATER  
SAMPLING SITES & AIR MONITORING  
STATIONS ALONG WOMAN CREEK AND  
THE SOUTH INTERCEPTOR DITCH  
Fig 1  
REV 1.1



--- MATCHLINE  
(SEE FIGURE 7 2 (1 OF 2))

**EXPLANATION**

- [ ] INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- SW 0 EXISTING SURFACE WATER LOCATION
- SED 1 EXISTING SEDIMENT SAMPLING LOCATION
- INTERMITTENT STREAM
- DIRT ROAD
- FENCE LINE
- DISTURBANCE BY SURFACE CHANNEL
- ORIGINAL STREAM CHANNEL NEAR POND C 2

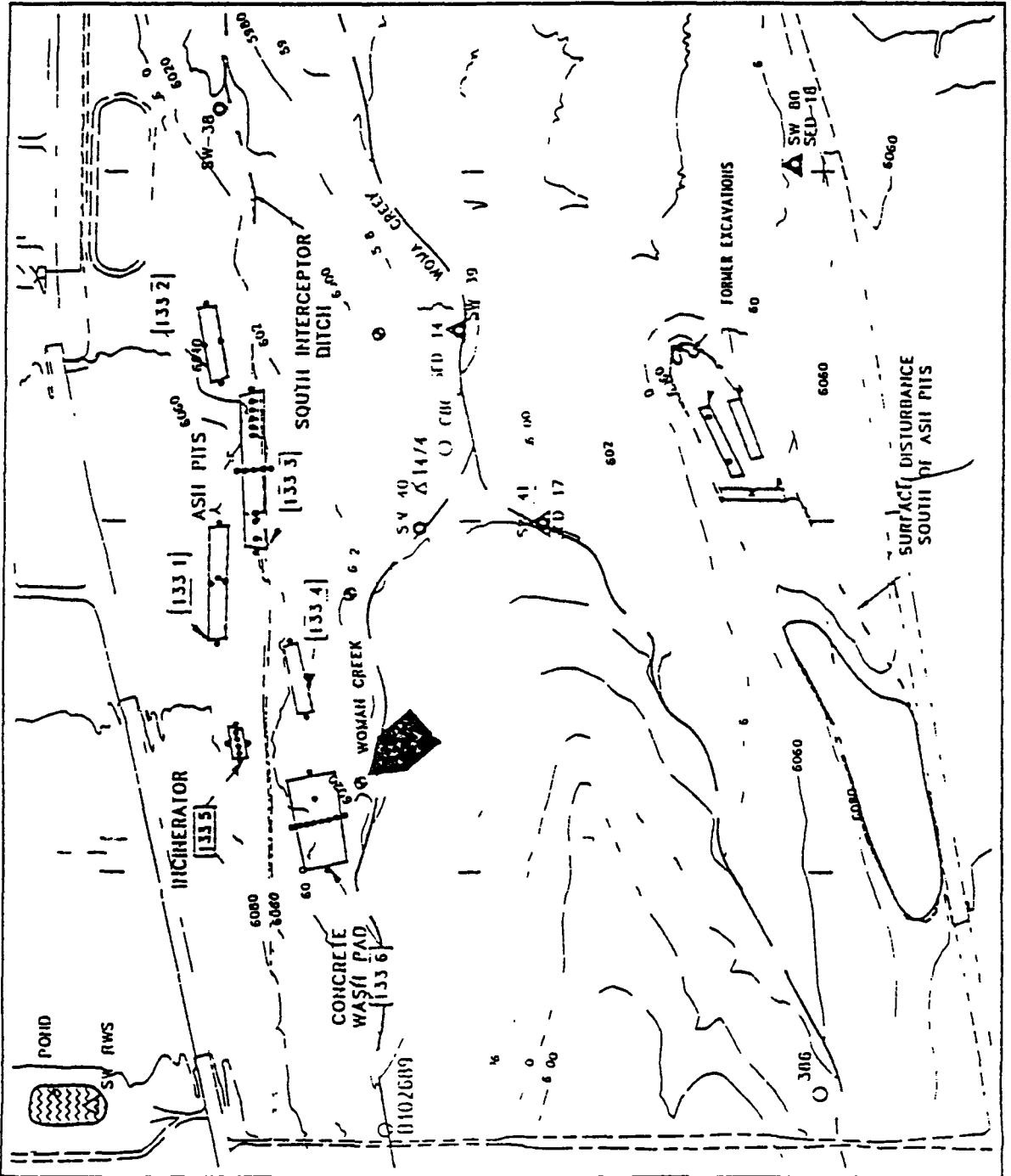
EXISTING ADJACENT MONITORING PROGRAM LOCATION  
PROPOSED STORM SAMPLE LOCATION

U.S. DEPARTMENT OF ENERGY  
R 111 P 1 G 1 d  
OPERABLE UNIT 3  
PHASE 1 RIV/R WORK PLAN

**SEDIMENT & SURFACE WATER  
SAMPLING SITES & AIR MONITORING  
STATIONS ALONG WOMAN CREEK AND  
THE SOUTH INTERCEPTOR DITCH**

8/17





### EXPLANATION

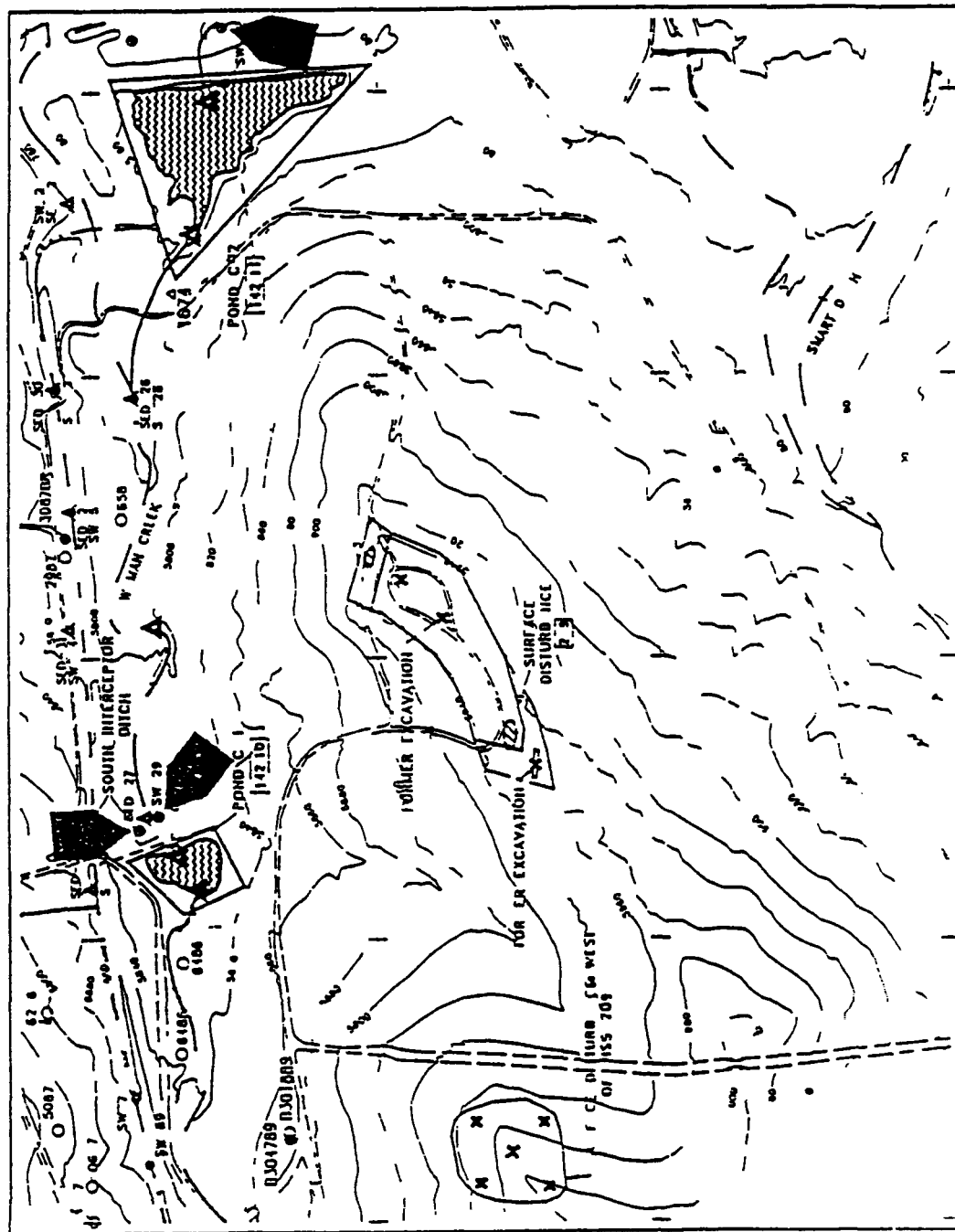
- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING ATMOSPHERIC GROUND AIR MONITORING II
- EXISTING SEDIMENT SAMPLING LOCATION
- PRE 1986 MONITORING WELL
- PROPOSED SOIL BORING LOCATION
- PROPOSED WELL LOCATION
- PROPOSED SURFACE SAMPLING LOCATION
- IRRIGATION STREAM
- DIRT ROAD

ALL PROPOSED LOCATIONS ARE APPROXIMATE

U.S. DEPARTMENT OF ENERGY  
RADIATION PHYSICS DIVISION

OPERABLE UNIT 5  
PHASE I RI/RI WORK PLAN

PROPOSED SAMPLING & WELL LOCATIONS  
ASH PITS 1-4 INCINERATOR  
CONCRETE WASH PAD (MISS 133.16)  
AND ADDITIONAL SURFACE DISTURBANCE



## EXPLANATION

- [illegible]

U S DEPARTMENT OF ENERGY  
R Ky 11 Pl 1 Cl d C 1 C 1

OPERABLE UNIT 5  
PHASE I RFI/R1 WORK PLAN

PROPOSED SAMPLING & WELL LOCATIONS  
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111	INDIVIDUAL HAZARDOUS SUBSTANCES	116	ENVIRONMENTAL
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S D 17	EXISTING SEEDING IN SAMPLING LOC NOW		
3087 ●	EXISTING BROCK CROUWHER ON (CNG)		

On 30

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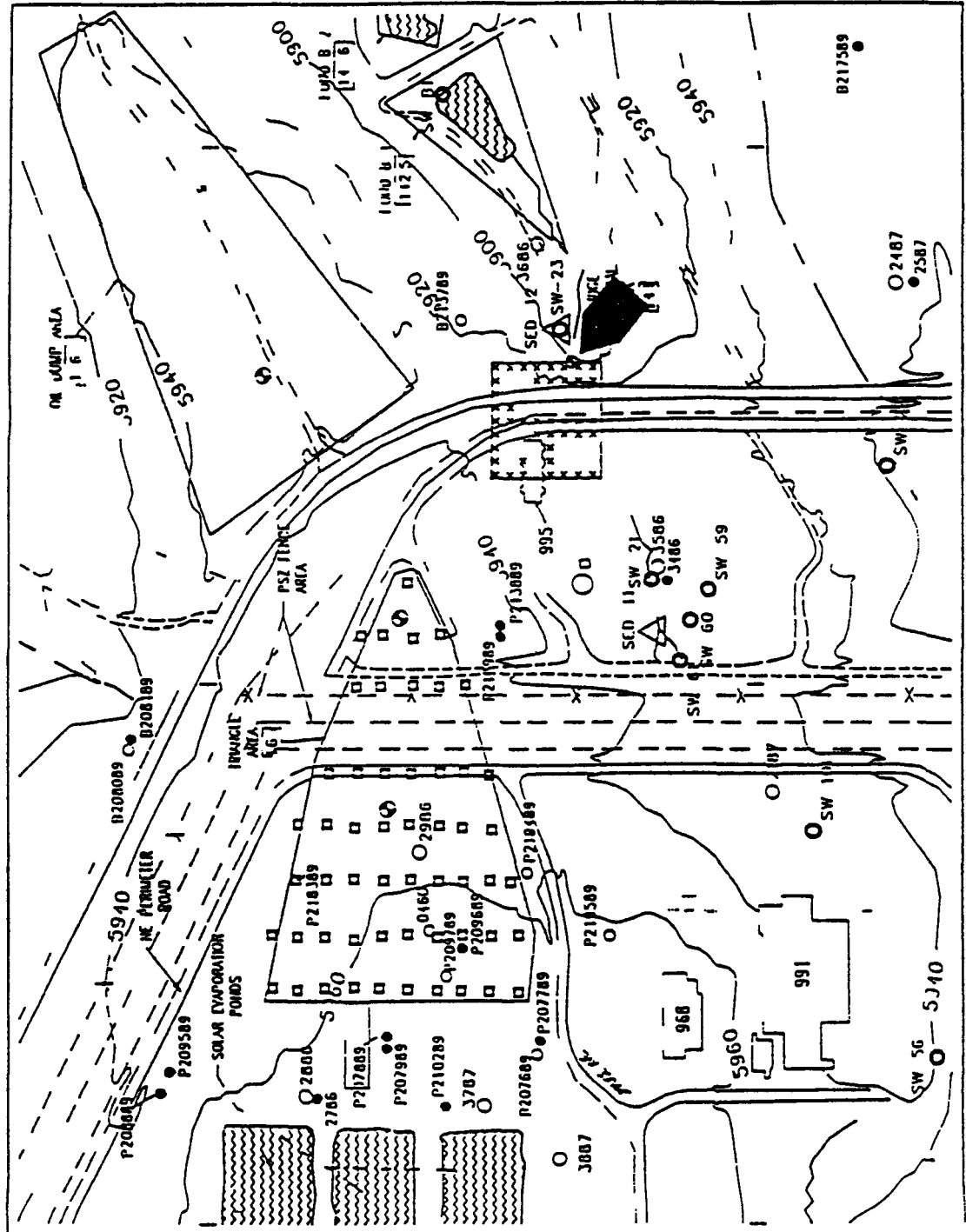
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PROPOSED SAMPLING AND  
WELL LOCATIONS  
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H155 165 TRIANGLE AREA  
H155 156 2 SOIL DUMP AREA

815



# DRAFT

FOR COMMENTS AND  
DISCUSSION ONLY

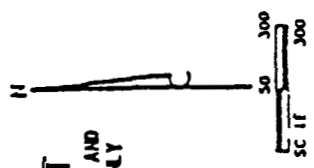
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## EXPLANATION

- INDIVIDUAL HAZARDOUS SUBSTANCE SITE
- EXISTING SURFACE WATER SAMPLING LOCATION
- EXISTING ALLUVIAL GROUND WATER MONITORING WELL
- EXISTING SEDIMENT SAMPLING LOCATION
- EXISTING BEDROCK GROUND WATER MONITORING WELL
- EXISTING PRE 1986 WELL
- INTERMITTENT STREAM
- DIRT ROAD
- PROPOSED WELL LOCATION
- PROPOSED SEDIMENT SAMPLING LOCATION
- PROPOSED BEDROCK WELL LOCATION FOR SITE WIDE GEOLOGICAL ANALYSIS FROM PROGRESSIVE DRILLING

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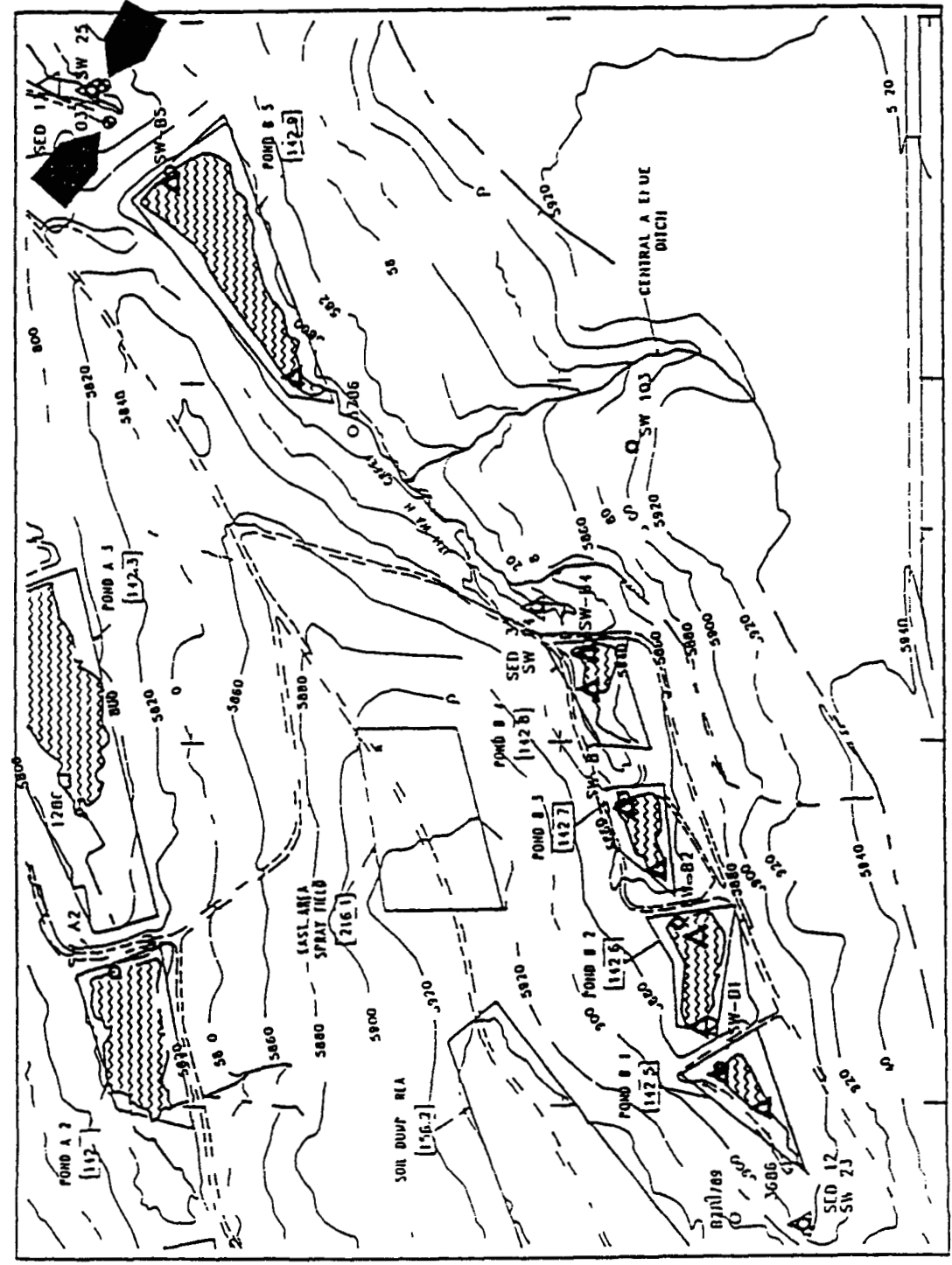
**DRAFT**  
FOR COMMENTS AND  
DISCUSSION ONLY



**EXPLANATION**

- (1) INDIVIDUAL HAZARDOUS SUBSTANCE SITE
  - SW 1 O TESTING SURFACE AFTER SAMPLE AC LOC ON
  - 5786 O EXISTING ALLUVAL GROUND TIER WORKING
  - 5787 O EXISTING SEDIMENT SAMPLING LOC NON
  - INTERMITTENT STREAM
  - = DIRT ROAD
  - [ ] ROCKY FLATS BEDS MO
  - PROPOSED WELL LOCATIONS
  - PROPOSED BORING AND SURFACE SAMPLE LOCATIONS
  - △ PROPOSED SEDIMENT SAMPLE LOCATIONS
  - ① PROPOSED BEDROCK WELL LOCATIONS FOR SITE WITH GEOLOGICAL CHARACTERISTICS FROM PROOF M
1. ALL PROPOSED LOCATIONS ARE APPROXIMATE  
2. THREE OTHER LOCATIONS IN EACH POND WILL BE SELECTED AT RANDOM

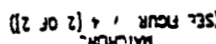
U.S. DEPARTMENT OF ENERGY  
R. H. HILL, PI 1 C 1 d  
OPERABLE UNIT 6  
PHASE 1 REMEDIATION WORK PLAN  
PROPOSED SAMPLING & WELL LOCATIONS  
B-SERIES DETENTION PONDS  
ALONG SOUTH WALNUT CREEK  
HSS 216 1 EAST AREA SPRAY FIELD

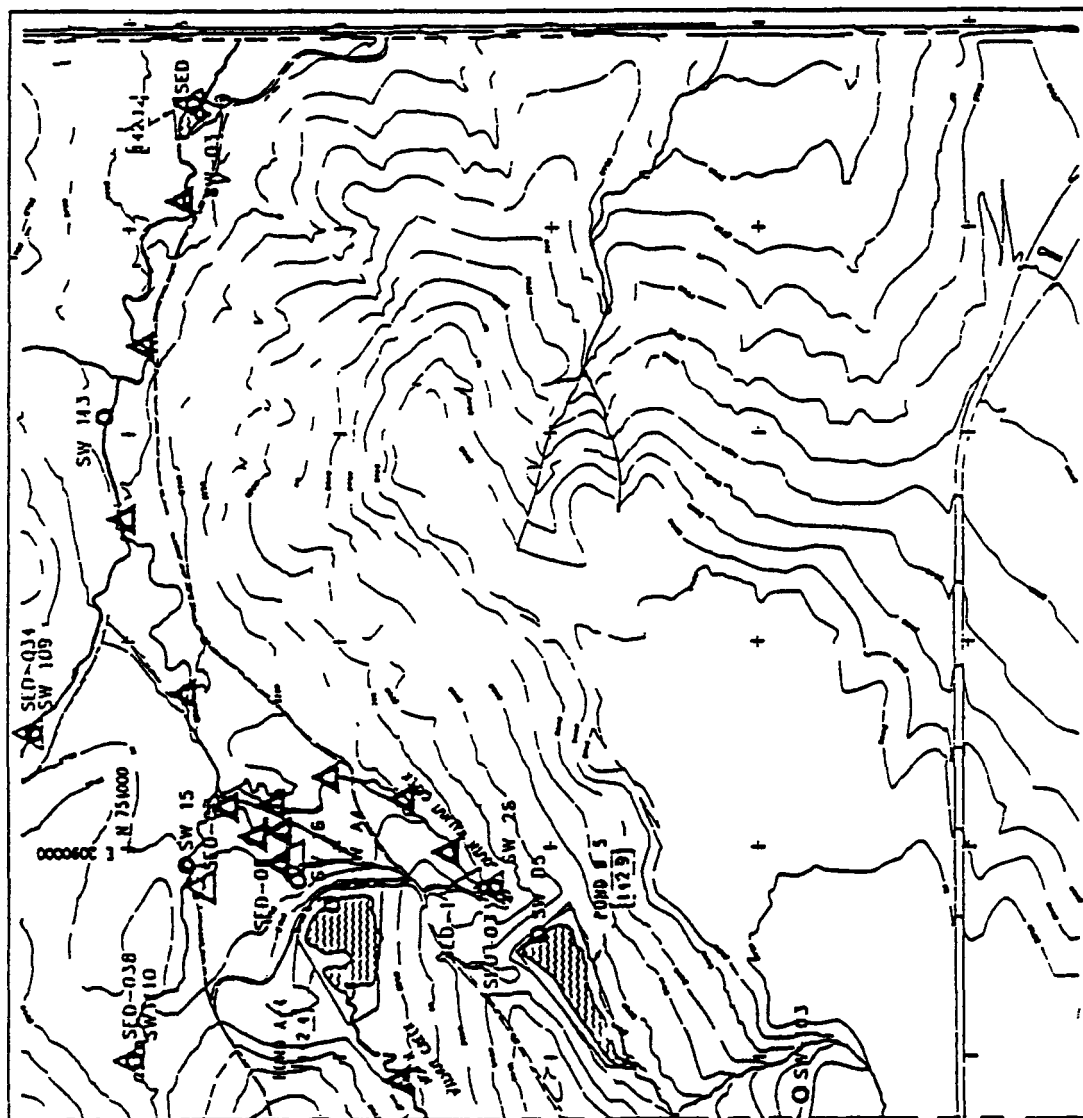


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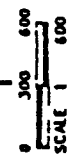
6. The





MA CHU 1 (SE FIGURE 7 [2 OF 2])

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DISCUSSION ONLY



**EXPLANATION**

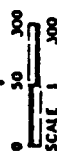
- INDIVIDUAL HAZARDOUS SUBSTANCE SITE (HSS) BY OPERABLE UNIT 6
- HSS REFERENCE NUMBER
- EXISTING SURFACE PER SAMPLING LOC NEW
- EXISTING SEDIMENT SAMPLE LOC NEW
- DIRT ROAD
- PROPOSED LOCATIONS FOR SEDIMENT SAMPLES

ALL PROPOSED LOCATIONS ARE APPROXIMATE

U.S. DEPT. OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
OPERABLE UNIT 6  
PHASE I RE/RI WORK PLAN

**SEDIMENT SAMPLING SITES AND  
SITE-WIDE PROGRAM BEDROCK WELLS  
ON NORTH AND SOUTH  
WALNUT CREEKS**

# DRAFT FOR COMMENTS AND DISCUSSION ONLY



## EXPLANATION

[115]

SW 10

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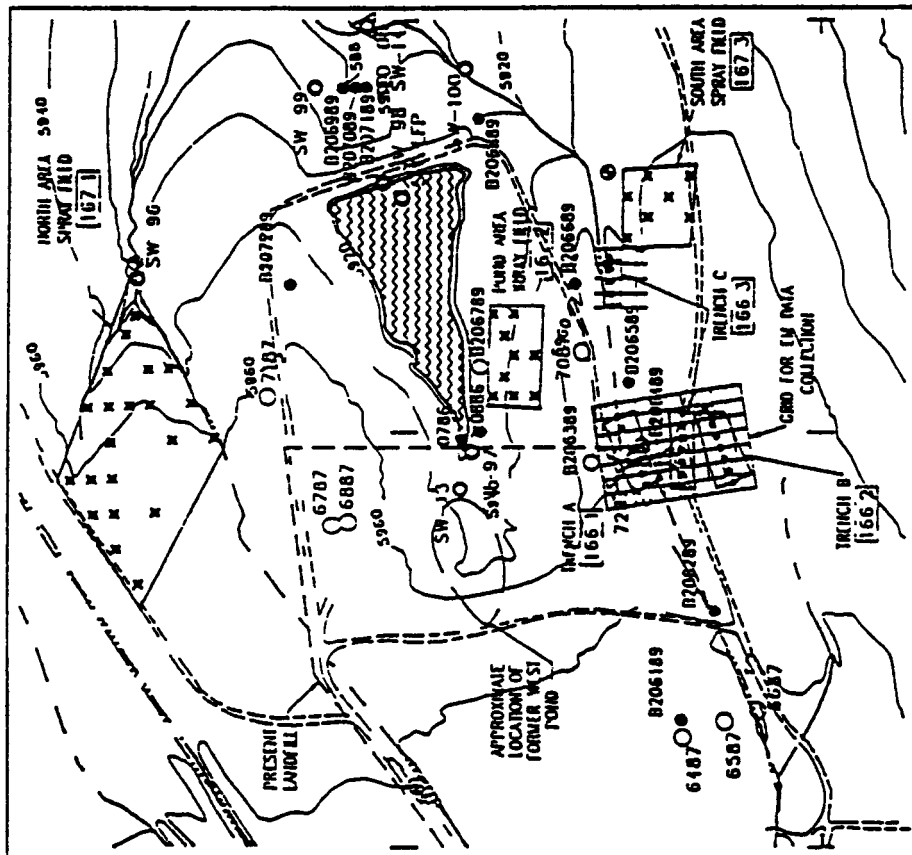
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AL OF SE LOC ROWS C AP R NW RE

U S DEPARTMENT OF ENERGY  
R by f i t p l t G l d C l o d

OPER BLC UNIT 6  
PHASE 1 RI/RI WORK PLAN

PROPOSED SAMPLING & WELL LOCATION  
HHSs 166 1-3 TRENCHES A B & C  
HHSs 167 1-3 NORTH AREA  
POND AREA AND SOUTH AREA



